

Title (en)

High frequency stabilised combustion in aviation gas turbines

Title (de)

Hochfrequenzstabilisierte Verbrennung in Fluggasturbinen

Title (fr)

Combustion stabilisée à haute fréquence dans des turbines à gaz volatile

Publication

**EP 2818798 B1 20161019 (DE)**

Application

**EP 14001966 A 20140606**

Priority

DE 102013010706 A 20130627

Abstract (en)

[origin: US2015047363A1] A gas turbine includes a combustion chamber and a microwave source to produce microwave radiation. The gas turbine is arranged to guide the microwave radiation into a cavity of the combustion chamber. Due to the microwave radiation, in the cavity of the combustion chamber, combustion in the cavity may be supported and thus lean operation of the gas turbine is made possible.

IPC 8 full level

**F23R 3/28** (2006.01); **F23C 99/00** (2006.01); **F23N 5/00** (2006.01)

CPC (source: EP US)

**F02C 7/00** (2013.01 - US); **F23C 99/001** (2013.01 - EP US); **F23N 5/006** (2013.01 - EP US); **F23R 3/28** (2013.01 - EP US); **F23N 2241/20** (2020.01 - EP US); **F23R 2900/00009** (2013.01 - EP US); **Y02T 50/60** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**DE 102013010706 B3 20141120**; EP 2818798 A1 20141231; EP 2818798 B1 20161019; US 2015047363 A1 20150219; US 9625145 B2 20170418

DOCDB simple family (application)

**DE 102013010706 A 20130627**; EP 14001966 A 20140606; US 201414313474 A 20140624